

METHOD FOR SCREENING FOR DRUG CANDIDATES FOR MODULATING TRANSCRIPTION FACTOR ACTIVITY

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5 Method and kits are provided for screening for transcription factor
modulators, the method comprising: forming a plurality of test samples by
contacting samples of cells with different agents; and for each test sample,
identifying which of a plurality of different activated transcription factors are present
by taking a library of double stranded transcription factor probes, the transcription
10 factor probes each comprising a recognition sequence capable of binding to an
activated transcription factor, the recognition sequence varying within the library for
binding to different activated transcription factors, contacting the different test
sample with the library of double stranded DNA probes under conditions where
DNA probe - transcription factor complexes are formed between the DNA probes
15 and activated transcription factors present in the test samples, isolating the
transcription factor probes from the transcription factor probe - transcription factor
complexes formed, and identifying which transcription factor probes in the library
formed complexes by taking an array of immobilized hybridization probes capable
of hybridizing to at least one of the strands of the different double stranded
20 transcription factor probes in the library and contacting the isolated transcription
factor probes with the array under conditions suitable for hybridization of the strands
of the different double stranded transcription factor probes to the hybridization
probes in the array; and comparing the activated transcription factors present in the
different test samples.